



40 dB Gain, 22 dBm P1dB, 1 GHz to 40 GHz,  
Broadband High Gain Amplifier, 5 dB NF, 2.92mm

## TECHNICAL DATA SHEET

PE15A3595

The PE15A3595 is a Portable Amplifier that operates over the 1.0 to 40.0 GHz Frequency Range. The amplifier has a typical gain of 40 dB and a P1dB of +22 dBm minimum. The amplifier has an On/Off switch that is located on the Front Panel. Input/Output Connectors are 2.92mm. The amplifier comes with a fuse and a 6 foot power cord. The amplifier can operate on either 120VAC or via an external 12VDC Battery Pack or Supply.

### Features

- 1.0 to 40.0 GHz Frequency Range
- Gain of 40 dB typ
- On/Off Switch on Front Panel
- Gain Flatness of  $\pm 3.0$  dB max
- P1dB of +22 dBm
- Input/Output Connectors 2.92mm Female
- AC or DC Supply operation

### Applications

- Test and Measurement
- General Purpose Broadband High Gain Amplifier
- Lab Test Amplifier
- Portable Broadband Amplifier

### Electrical Specifications (TA = +25°C, DC Voltage = 12Volts)

Description	Minimum	Typical	Maximum	Units
Frequency Range	1		40	GHz
Gain		40		dB
Gain Flatness		$\pm 2.5$		dB
Output at 1 dB Compression Point	+22			dBm
Output at 1 dB Compression Point at 1 to 18 GHz		+22		dBm
Output at 1 dB Compression Point at 18 to 40 GHz		+18		dBm
Input Power			15	Watts
Noise Figure (Mid-Band)		5		dB
Input VSWR		2.5:1		
Output VSWR		2.5:1		
Operating DC Voltage (External)			12	Volts
Operating AC Voltage		120		VAC
Operating Temperature Range (OTR)	-40		+85	°C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [40 dB Gain, 22 dBm P1dB, 1 GHz to 40 GHz, Broadband High Gain Amplifier, 5 dB NF, 2.92mm PE15A3595](#)



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### Mechanical Specifications

#### Size

Length	4.92 in [124.97 mm]
Width	4.92 in [124.97 mm]
Height	2.1 in [53.34 mm]
Weight	0.17 lbs [77.11 g]
Input Connector	2.92mm
Output Connector	2.92mm

### Environmental Specifications

#### Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +100 deg C

#### Humidity

#### Shock

#### Vibration

#### Altitude

#### Temperature Cycle

MIL-STD-202F, Method 103B COND. B  
MIL-STD-202F, Method 213B COND. B  
MIL-STD-202F, Method 204D COND. B  
MIL-STD-202F, Method 105C COND. B  
MIL-STD-202F, Method 107D COND. A

### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

Not RoHS Compliant

### Plotted and Other Data

#### Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



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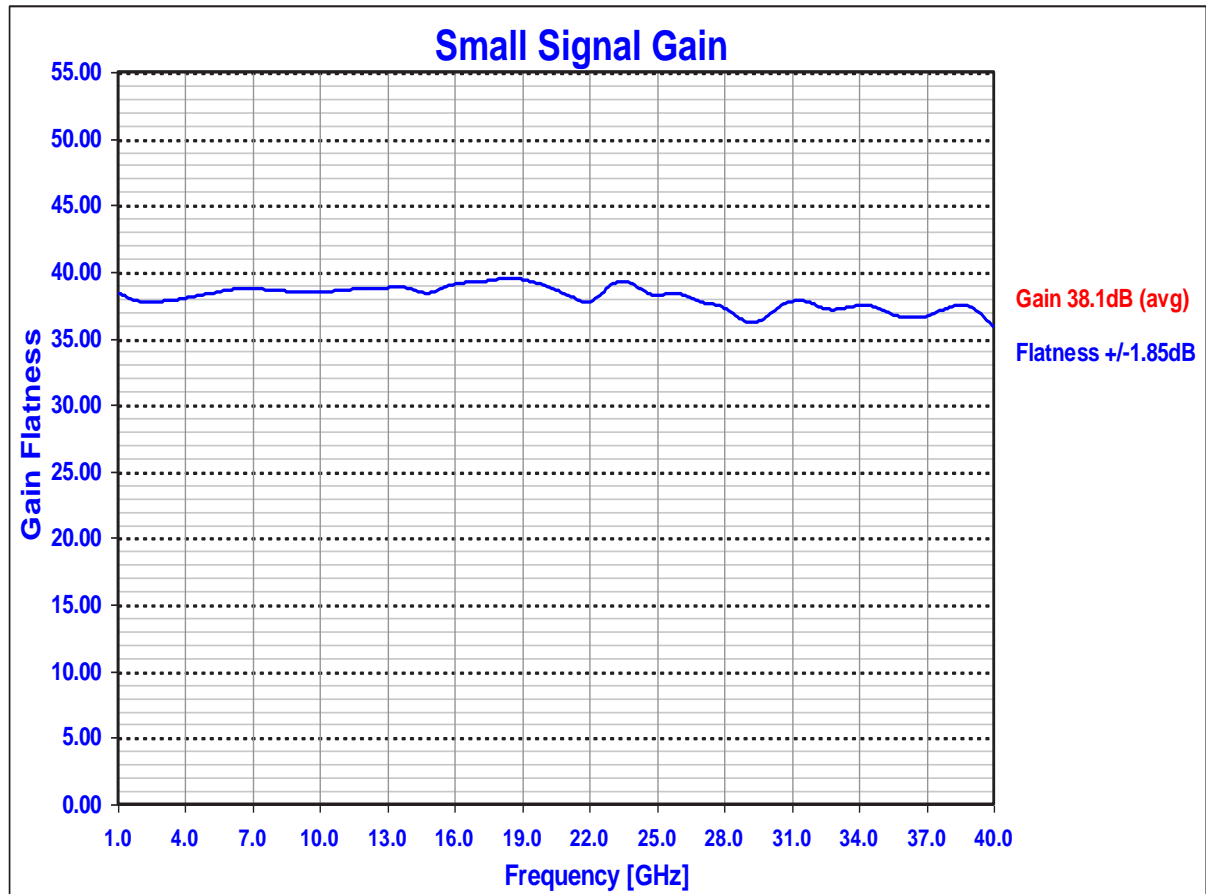


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Typical Performance Data



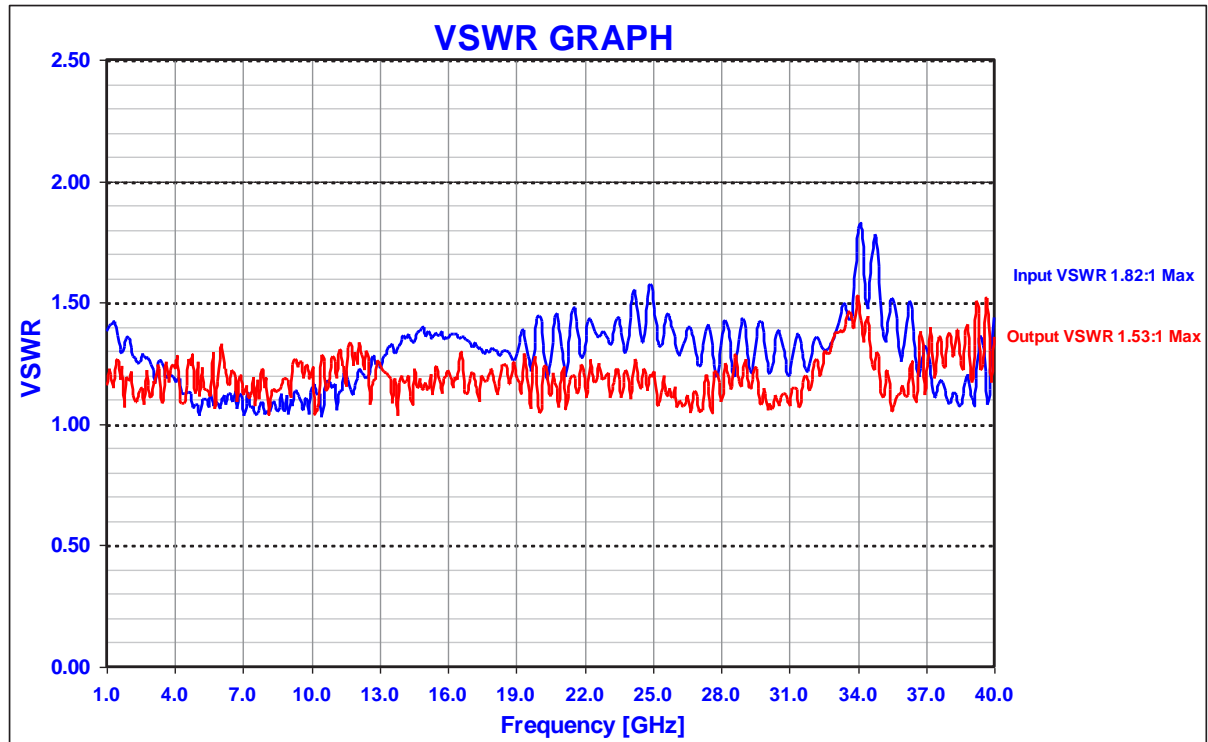
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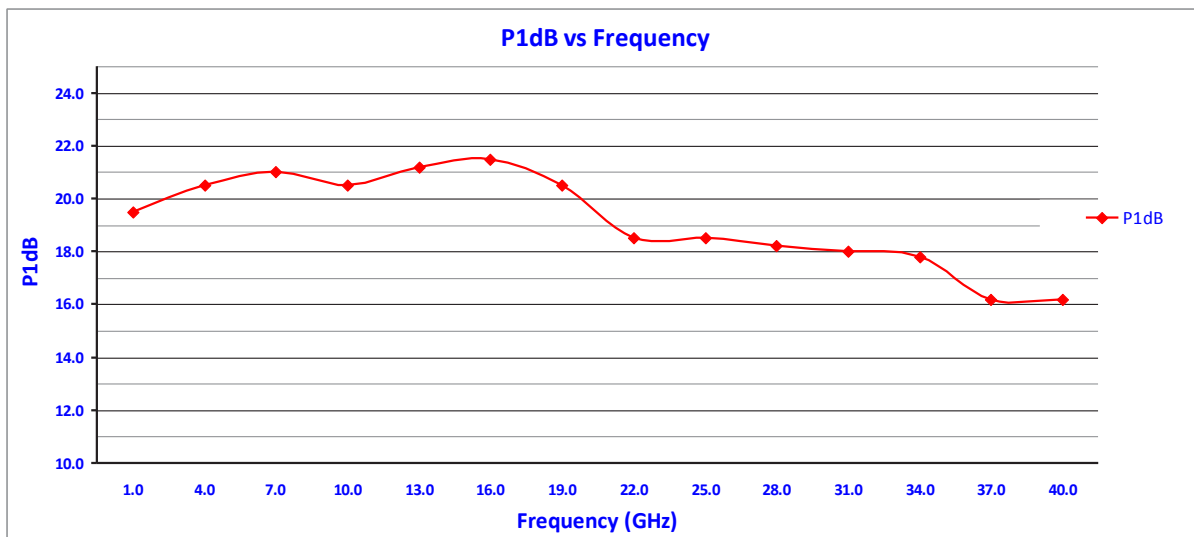
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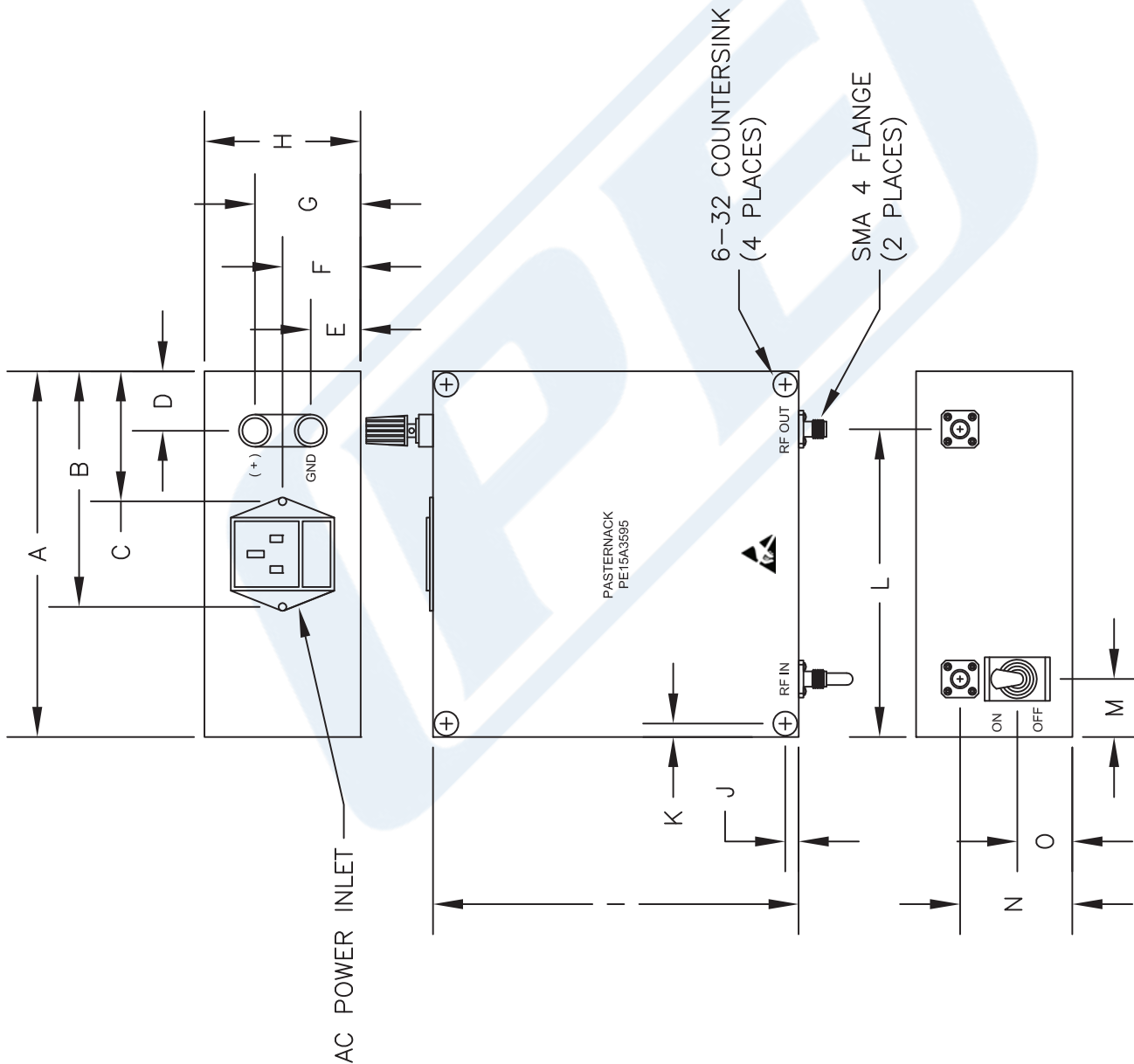
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# PE15A3595 CAD Drawing

40 dB Gain, 22 dBm P1dB, 1 GHz to 40 GHz, Broadband

High Gain Amplifier, 5 dB NF, 2.92mm

Dimension	Inches	mm
A	4.920	124.97
B	3.170	80.52
C	1.750	44.45
D	0.800	20.32
E	0.670	17.02
F	1.050	26.67
G	1.420	36.07
H	2.100	53.34
I	4.920	124.97
J	0.180	4.57
K	0.180	4.57
L	4.140	105.16
M	0.780	19.81
N	1.510	38.35
O	0.740	18.80



DWG TITLE

**PE15A3595**

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

**P****E** **PASTERNAK**  
THE ENGINEER'S RF SOURCE  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 031914

SCALE N/A

SIZE A

2233